



**MATERIAL SAFETY DATA SHEET  
EXPANDED POLYSTYRENE FOAM PRODUCTS**

**Plymouth Foam Inc.  
1800 Sunset Drive  
Plymouth, WI 53073  
920-893-0535  
Updated: March, 2011**

**Section 1**

Chemical Name Expanded Polystyrene Foam (EPS)  
Chemical Family & Formula Polystyrene (C<sub>8</sub>H<sub>8</sub>)<sub>n</sub> with flame retardant additive

	<b>Health</b>	<b>Fire</b>	<b>Reactivity</b>	<b>Degree of Hazard</b>
NFPA Rating:	1	2*	0	0 – Minimal (Insignificant)
HMIS Rating:	1	2*	0	1 – Slight (Minor) 2 – Moderate 3 – Serious (High) 4 – Severe (Extreme)

**Section 2-Ingredients**

Polystyrene CAS# 9003-53-6  
Pentane TLV 600ppm: CAS# 109-66-0 <1.5%, <0.1% after 30 days  
Brominated Flame Retardant CAS# 3194-55-6 <1.0%  
When requested, insect and fungus additive:  
Disodium Octaborate Tetrahydrate CAS# 12008-41-2 <0.4%

**Section 3-Physical Data**

Boiling Point: Not applicable, softens at 160F.  
Solubility in Water: None  
Volatiles by Volume: 0-3.0% after molding  
Appearance: Rigid cellular foam block or board  
Odor: Slight hydrocarbon odor

**Section 4-Fire and Explosion Hazard Data**

Flash Point 675F (ASTM D 1929)  
Extinguishing Media: Water fog, CO<sub>2</sub>, dry chemical, foam  
Unusual Fire & Explosion Hazard: Will emit large volumes of dense, black smoke. Firefighters should be equipped with self-contained breathing devices and turn out gear. Dust generated from sanding, sawing, grinding, etc. will increase the fire hazard and should be handled according to regulatory guidelines.

**Section 5-Health Hazard Data**

Eye: Dust or pieces may cause mechanical eye injury.  
Skin: Mechanical injury only. Usually non-irritating.  
Ingestion: May act as an obstruction and cause choking  
Inhalation: Dust may cause irritation to the upper respiratory tract.  
Excessive exposure to high concentrations of the pentane blowing agent or fumes from hot wire cutting or melting may cause irritation to the upper respiratory tract.  
Emergency First Aid: Wash with water, get to fresh air, consult physician.

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#### **Section 6-Handling and Storage**

Stability:

Conditions to Avoid:

Incompatibility:

Hazardous Decomposition:

The product is stable

Open flames, sparks and high temperatures over 160F

Organic solvents, hydrocarbons, esters, amines, etc.

Will not dissolve under normal conditions. In a fire condition, carbon monoxide, carbon dioxide, acid gases, and small amounts of hydrogen halide are generated.

#### **Section 7-Disposition of Material**

Normal good housekeeping should be observed in properly disposing of scrap material. Material Should be swept or picked up and placed in suitable containers for disposal. Material is inert and will not be harmful to landfills, check with your local regulations. Material may be recycled, contact the Alliance of Foam Packaging Recyclers, 401-451-8340, website: <http://www.epspackaging.org/index.html>.

#### **Section 8-Exposure and Personal Protection**

Respiratory Protection:

Ventilation:

Protective Clothing:

Eye Protection:

Use approved dust masks if sawed or sanded

Provide proper ventilation when fabricating material

None required

Safety goggles or glasses recommended when fabricating material to avoid irritation from dust.

#### **Section 9-Special Precautions**

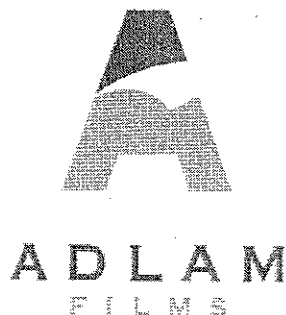
Expanded Polystyrene sold for construction contains a flame retardant additive to inhibit ignition from small fire sources, however the product will burn and should not be exposed to open flames, sparks, high temperatures, cutting torches, welders or other ignition sources. Installation should always be in compliance with local building codes.

If the material is to receive further fabrication such as sawing, sanding, grinding, etc; normal precautions should be taken to handle the dust and avoid sparks or ignition of dust sources.

The material contains small amounts of a flammable blowing agent and should not be stored or used in a confined, virtually airtight area to prevent a buildup of combustible vapors. If the material is to be cut with hot wires or heat applied in any fashion, work areas should be well ventilated to avoid buildup of processing fumes.

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# 93

ADLAM FILMS, LLC  
62 County Road 520  
Shannon, Mississippi 38868  
Phone: (662) 823-1345  
Emergency Phone: (662) 823-1345

## Material Safety Data Sheet (Polyester Laminating Film)

### SECTION I (PRODUCT IDENTIFICATION)

Product Name	1.0 CLP
Product Description	Polypropylene Laminating Film
Product Category	Film
MSDS Identification No.	TFF-0002
MSDS Date	January 2009

### SECTION II (COMPOSITION: HAZARDOUS COMPONENTS)

This product is not hazardous as defined under the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard 29 CFR § 1910.1200 nor is it a controlled product under Canada's Workplace Hazardous Material Information System

Chemical Name	CAS Number	Concentration (wt%)
NA	—	—

### SECTION III (PRODUCT HAZARDS IDENTIFICATION)

#### Emergency Overview

No significant effects expected.

#### Potential Health Effects

##### Eye

This product is not likely to irritate the eyes under normal use.

##### Skin

None.

**Inhalation**

During elevated heat processing, irritating fumes may be released.

**Ingestion**

None.

**Chronic Health Effects**

No chronic health effects are associated with the use of this product.

**Carcinogen Status**

OSHA: No

NTP: No

IARC: No

**Medical Conditions Aggravated By Exposure**

None.

<b>SECTION IV ( FIRST AID MEASURES )</b>
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**Eye Contact**

Flush with water. If irritation occurs, seek medical assistance.

**Skin Contact**

Not expected to produce any results requiring treatment.

**Inhalation**

If adversely affected by irritating fumes released in processing, get to fresh air. Get medical attention if necessary.

**Ingestion**

Not expected to occur or produce any effects requiring treatment.

<b>SECTION V ( FIRE FIGHTING MEASURES )</b>
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**Flash Point (degree F)**

600°F and above (estimated)

**Flammability Class (OSHA/NFPA)**

None.

**NOTE:** Auto ignition may occur at 600 °F and above. During processing of film, film may pick up static charge. Avoid discharge into dust or solvent laden air as a flash fire may result.

**Extinguishing Media**

Dry chemical, carbon dioxide, water spray or regular foam.

**Fire Fighting Instructions**

For fighting fires in buildings and confined spaces, firefighters must use self-contained breathing apparatus. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supplies.

**POLYESTER FILM WILL BURN IN A FIRE.**

## **SECTION VI ( ACCIDENTAL RELEASE MEASURES )**

Not applicable. Product is not a liquid or a flow able powder.

## **SECTION VII ( HANDLING AND STORAGE )**

Observe all applicable regulations when storing this product. Keep in a cool, dry, ventilated area.

## **SECTION VIII ( EXPOSURE CONTROLS / PERSONAL PROTECTION )**

### **Engineering Controls**

Ventilation is not normally required in handling film. Heat processing (e.g. sealing, thermal cutting) may require local exhaust ventilation to capture fumes and vapors emitted.

#### **Eye/Face Protection**

Not normally required. Provide eye protection against irritating gases, if ventilation is inadequate in heat processing.

#### **Skin Protection**

Not normally required. Suitable gloves may be used in heat processing.

#### **Respiratory Protection**

Not normally required. Suitable NIOSH respirators may be required if irritating gases are produced and local exhaust ventilation is inadequate. For Firefighting, see Section 5.

### **Established Exposure Guidelines**

**Chemical Name**

**OSHA-PEL**

NA

## **SECTION IX ( PHYSICAL AND CHEMICAL PROPERTIES )**

<b>Boiling Point / Range (degree F)</b>	NA
<b>Specific Gravity (Water = 1)</b>	0.92-0.98
<b>Vapor Density</b>	NA
<b>Vapor Pressure</b>	NA
<b>Appearance</b>	Clear
<b>Odor</b>	Slight bitter odor, non-toxic

## **SECTION X ( STABILITY AND REACTIVITY )**

#### **Stability**

Stable. Hazardous polymerization will not occur.

**Condition to Avoid**

Keep product away from fire.

**Incompatibility**

NA

**Hazardous Decomposition Products**

Thermal decomposition products from incomplete combustion (pyrolysis) include carbon monoxide, carbon dioxide, nitrogen oxides and small quantities of irritating substances such as trace hydrocarbons, aldehydes, ketones, alcohols and organic acids.

**SECTION XI ( TOXICOLOGY OF COMPONENTS )**

No known toxicological components contained in this product.

**SECTION XII ( ECOLOGICAL INFORMATION )**

<b>Acute Aquatic Toxicity</b>	Data not available.
<b>Degradability</b>	Data not available.
<b>Bioconcentration Factor (BCF)</b>	Data not available.
<b>Octanol/Water Partition Coefficient</b>	Data not available.

**SECTION XIII ( DISPOSAL CONSIDERATIONS )**

Dispose of this product in accordance with local, county, state and federal environmental regulations (contact local or state environmental agency for specific rules).

**SECTION XIV ( TRANSPORTATION INFORMATION )**

<b>D.O.T. Classification</b>	Not Hazardous
<b>UN Number</b>	NA

**SECTION VX ( REGULATORY INFORMATION )**

<b>US Federal Regulations</b>	None
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**Clean Air Act (ODS)**

This product neither contains, nor was manufactured with a Class I or Class II ozone depleting substance (ODS). We have relied on our suppliers' labeling of their products in making this determination.

<b>CERCLA Section 103 (40 CFR § 302.4)</b>	No
<b>SARA Section 302 (40 CFR § 355.30)</b>	No
<b>SARA Section 304 (40 CFR § 355.40)</b>	No
<b>SARA (EPCRA) Section 313 (40 CFR § 372.65)</b>	No
<b>OSHA Process Safety (29 CFR § 1910.119)</b>	No
<b>SARA Hazard Categories, SARA Sections 311/312 (40 CFR § 370.21)</b>	
Acute Hazard	No
Chronic Hazard	No
Fire Hazard	No
Reactivity Hazard	No
Sudden Release Hazard	No

## Coalition of Northeastern Governors (CONEG)

This product fully complies with all CONEG legislation restricting lead, mercury, cadmium and hexavalent chromium.

### State Reporting Requirements

California Proposition 65: The California Safe Drinking Water and Toxic Enforcement Act of 1986. This product, as supplied for intended use, contains no substances present at any level that are, under the Statute, characterized as known to the State of California to cause cancer or to be a reproductive toxicant.

New Jersey: Not Hazardous

## SECTION XVI ( OTHER )

### Hazard Rating Systems

#### Key

4 = Severe  
3 = Serious  
2 = Moderate  
1 = Slight  
0 = Minimal

Hazard	HMIS	NFPA
Health	1	1
Flammability	1	1
Reactivity	0	0

CAUTION: HMIS ratings are based on a 0-4 rating scale with 1 representing minimal hazards or risks and 4 representing significant hazards or risks. Recommended HMIS ratings should not be used in the absence of a fully implemented HMIS Hazard Communication Program. These ratings are intended only for the immediate and general identification of acute hazards. ADLAM FILMS, LLC is providing this information on a voluntary basis as a guide for our customers. The use and interpretation of this information may vary from company to company.

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